



COLOR CHANGING SLIME

MATERIALS:

Portion Cup of Color Changing Glue
Zip Bag of Borax
Paper Towels

Water
Empty Portion Cup
Plastic Spoon

VOCABULARY:

Chemistry
Solid
Polymer

Matter States of Matter
Liquid Gas
Non-Newtonian Fluid

DIRECTIONS:

1. Add the borax to the empty portion cup and fill it half full with water, then mix using the plastic spoon.
2. Add water to the blue color changing glue so the portion cup is half full. Use the spoon to mix the glue and water.
3. Slowly pour the blue color changing glue into the borax solution. Mix carefully with the spoon.
4. Remove the slime from the cup and knead it.
5. Play with your slime! Take it outside to see it change color in the sun.

THE SCIENCE BEHIND THE EXPERIMENT:

Polyvinyl acetate, or PVA, is a liquid polymer and is found in glue. The borax links the polyvinyl acetate molecules to each other, creating one large, flexible polymer. This kind of slime will get stiffer and more like putty the more you play with it. Experiment with different glues to see if they create slime (e.g., carpenter glue, tacky glue, etc.).



EXTENSIONS:

1. What happens when you change how much water or borax you use?
2. What happens if you change the amount of glue?
3. What other changes can you come up with for this experiment?

WEBSITES AND VIDEO LINKS:

1. Elmer's Glue Sime Recipes: <https://www.elmers.com/blogs?fdid=blog>

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